**Angular Exploration** Name:

Rodriguez/Geometry Honors

Each of these explorations will uncover important ideas about angle relationships. It is highly suggested that you work with a partner.

Your goals for each exploration:

* Do the drawings on one piece paper and write observations on another paper.
* Try to think about WHY things are happening. Use your prior knowledge if you need to.
* Organize your thinking in some way, if possible. See if there are relationships. Make connections.
* Actively use your protractor. You’ll need it.
* Have fun. ☺

**Exploration #1:**

Draw 2 intersecting lines. (Do this many times.) What happens? Write down all of your observations and any conclusions you think you can make.

**Exploration #2:**

Draw 3 intersecting lines. (Do this many times.) Then, repeat the observations and conclusion process from the first exploration.

**Exploration #3:**

Draw 2 parallel lines. Then, draw a transversal, which is a line that cuts across parallel lines. (Do this as many times as you need to.) What happens?

**Exploration #4:**

Make connections between the first three explorations. Did they have anything in common? (Or, are there no possible connections because the explorations each had different results?)